No. 840,213. PATENTED JAN. 1, 1907.

F. HOLOUBEK.

SOAP MOLDING BATTERY.

APPLICATION FILED JULY 3, 1905.

Fig. 1

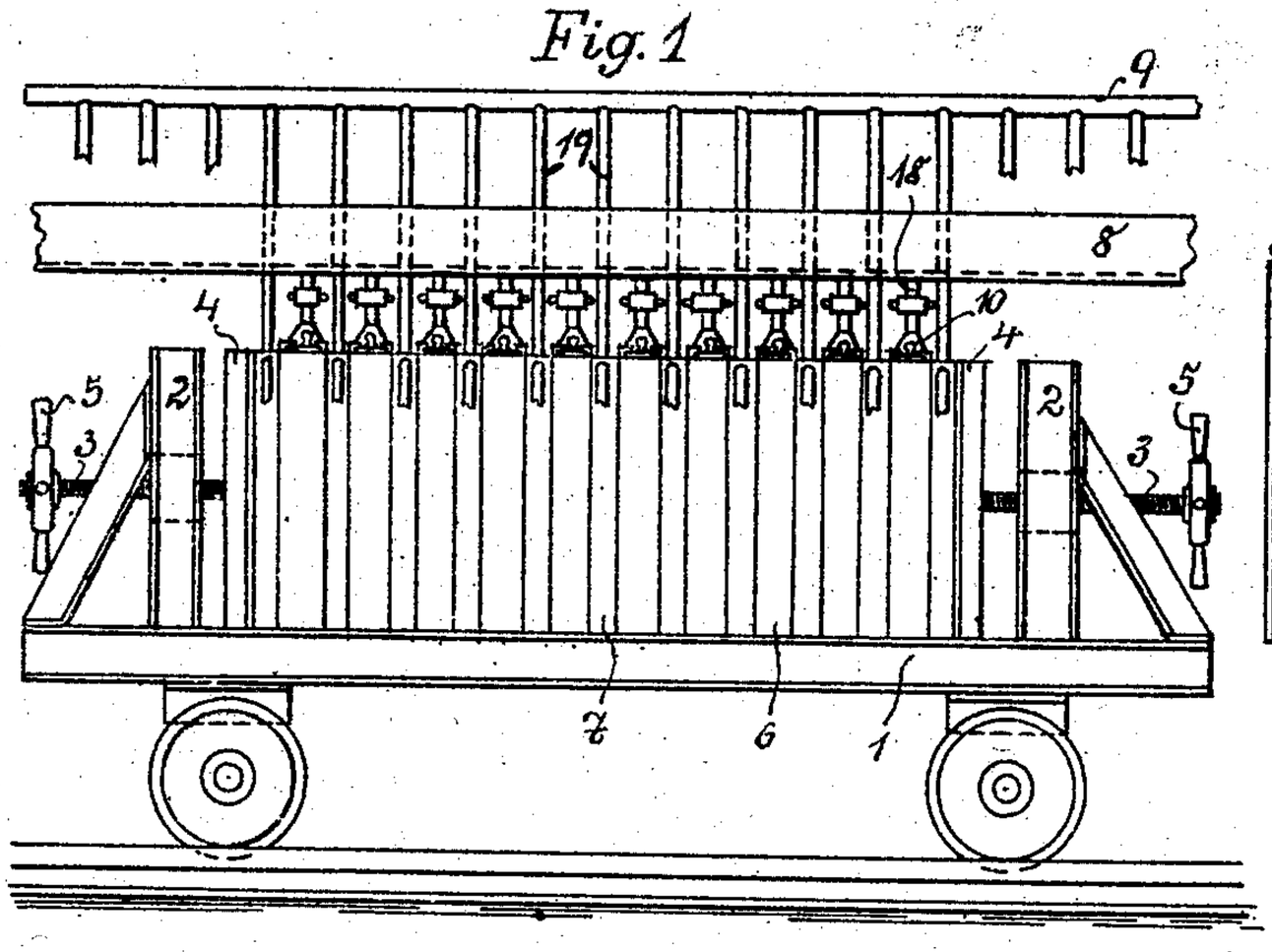

Fig. 3

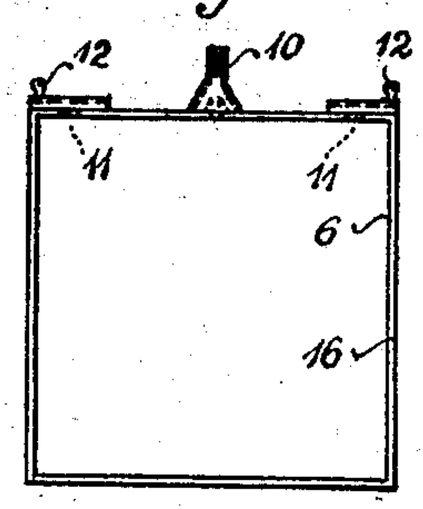

Fig. 2

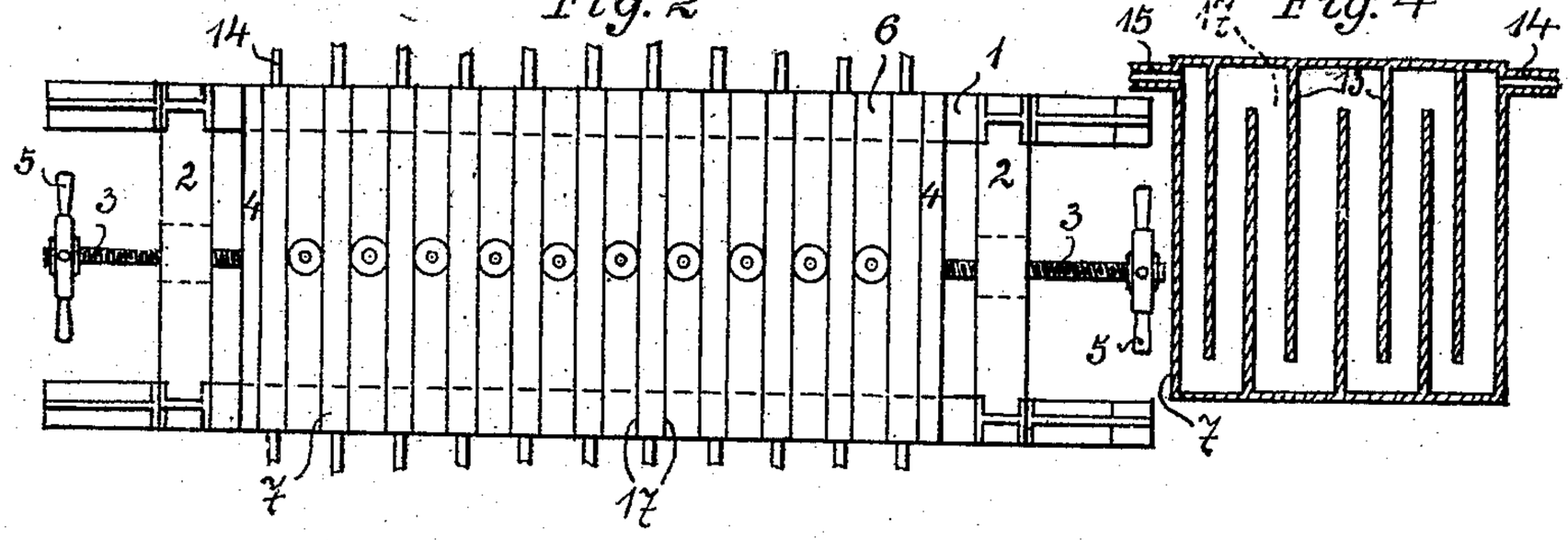

Fig. 4

Witnesses:

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FRANT HOLOUBEK, OF NUSLE, NEAR PRAGUE, AUSTRIA-HUNGARY.

SOAP-MOLDING BATTERY.

No. 840,213. Specification of Letters Patent. Patented Jan. 1, 1907.

Application filed July 3, 1905. Serial No. 268,110.

To all whom it may concern:

Be it known that I, FRANT HOLOUBEK, a subject of the Emperor of Austria-Hungary, residing at Nusle, near Prague, Province of Bohemia, Empire of Austria-Hungary, have invented new and useful Improvements in Soap-Molding Batteries, of which the following is a specification.

The present invention relates to an improved apparatus for cooling and molding soap.

The invention consists in the provision of a plurality of molding-frames and cooling-chambers forming when assembled a molding-battery adapted to receive the soap and cooling fluid and adapted to be readily disassembled when the soap is set or caked.

The invention consists more particularly in the provision of such a battery composed of molding-frames open at their sides and adapted when assembled with the cooling-chambers to be closed by the latter to form the molding-cavities, the frames and chambers being alternately disposed, so that substantially the entire area of both sides of each cake of soap is exposed to the action of the cooling agent.

The invention will be more fully described in connection with the accompanying drawings and will be more particularly pointed out and ascertained in and by the appended claims.

In the drawings, Figure 1 represents in side elevation a form of molding-battery embodying the main features of my invention, the same being shown mounted upon a carriage and connected with sources of supply of soap and cooling fluid. Fig. 2 is a plan view of the battery-carriage. Fig. 3 is a side elevation of one of the molding-frames. Fig. 4 is a vertical section of one of the cooling-chambers.

As shown, the molding-battery consists of a plurality of rectangular molding-frames 6 and cooling-chambers 7, said frames being open at their sides and provided with engaging margins 16. An inlet-nozzle 10, mounted on each frame, delivers the soap thereto. Near the outer ends of the upper wall of each frame two apertures 11 are provided in order to enable the operator to inspect the contents of the frame during the molding operation. I desirably provide slides 12 for closing said inspection holes or apertures.

Each of the cooling-chambers 7 consists of a rectangular closed compartment, desirably of equal size with respect to the frames, the margins of said chambers fitting closely against the margins 16 of the frames and closing the latter on both sides. Each of said cooling-chambers is preferably provided with a plurality of partitions 13, extending in opposite directions from the upper and lower walls of the chamber to provide a circuitous path for the cooling fluid. By means of the partitions 13 the cooling fluid is caused to pass throughout the area of the walls 17, thereby imparting cooling action to the soap in the most efficient manner. Inlets and outlets 14 and 15 are provided, as shown in Fig. 4.

To form the battery, the frames and chambers are assembled in alternate order and clamped together so that the chambers are compressed tightly against the frames, and vice versa, a convenient device for this purpose being shown in Fig. 1, wherein clamping-plates 4 and threaded rods 3, passing through supports 2 and provided with hand-wheels 5, are provided. In some cases it is convenient to mount the battery upon a carriage 1, provided with wheels adapted to run upon rails to enable the battery to be brought into registering proximity to the devices for supplying the fluid soap and cooling medium. As shown, one method of supplying said soap and cooling medium consists in providing a trough 8, having valved connections 18 delivering to the nipples 10, and pipes 9, having flexible extensions 19 delivering to the inlets 14 of the cooling-chambers, the outlets 15 delivering to a common discharge.

I claim—

1. A soap-molding battery comprising a plurality of molding-frames and cooling-chambers alternately disposed, said frames being open at both sides and adapted to be closed by said cooling-chambers to receive the fluid soap, means for supplying soap to said frames, and means for supplying cooling fluid to said chambers.

2. A soap-molding battery comprising a plurality of molding-frames and cooling-chambers, said frames being open at both sides and adapted to be closed by said cooling-chambers to receive the fluid soap, and means for supplying fluid soap to said frames.

3. A soap-molding battery comprising a plurality of molding-frames and cooling-chambers alternately disposed, said frames

being open at both sides and adapted to be closed by said cooling-chambers to receive the fluid soap, and means for supplying cooling fluid to said chambers.

4. A soap-molding battery comprising a plurality of molding-frames and cooling-chambers alternately disposed, said frames being open at both sides and adapted to be closed by said cooling-chambers to receive the fluid soap.

In testimony whereof I affix my signature in presence of two witnesses.

FRANT HOLOUBEK.

Witnesses:

FRANT W. MATERNA,

ADOLPHE FISCHER.